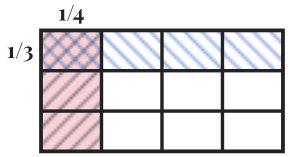
Multiplying fractions

ANSWERS

1

Work out $\frac{1}{3} \times \frac{1}{4}$

shade 1/3 the other way



top × top, bottom × bottom

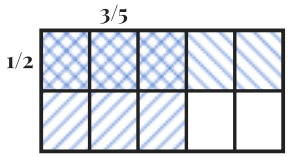
$= \frac{1 \times 1}{3 \times 4} = \frac{1}{12}$

Answer $\frac{1}{12}$

2

Work out $\frac{1}{2} \times \frac{3}{5}$

shade 3/5 one way and 1/2 the other



top × top, bottom × bottom

$= \frac{1 \times 3}{2 \times 5} = \frac{3}{10}$

Answer $\frac{3}{10}$

3

Work out $\frac{2}{5} \times \frac{2}{3}$

top × top, bottom × bottom

$= \frac{2 \times 2}{5 \times 3} = \frac{4}{15}$

Answer $\frac{4}{15}$

4

Work out $\frac{5}{8} \times \frac{3}{4}$

$= \frac{5 \times 3}{8 \times 4} = \frac{15}{32}$

Answer $\frac{15}{32}$

5

Work out $\frac{5}{6} \times \frac{3}{10}$

Give your answer in its simplest form.

top × top, bottom × bottom

$= \frac{5 \times 3}{6 \times 10} = \frac{15}{60}$

simplify

$= \frac{1}{4}$

Answer $\frac{1}{4}$

6

Work out $8 \times \frac{3}{4}$

Give your answer in its simplest form.

write 8 over 1

$= \frac{8}{1} \times \frac{3}{4}$

top × top, bottom × bottom, then divide

$= \frac{8 \times 3}{1 \times 4} = \frac{24}{4} = 6$

6

Answer

7

Work out $2\frac{1}{2} \times \frac{3}{5}$. Give your answer as a mixed number.

$\frac{5}{2} \times \frac{3}{5} = \frac{15}{10}$

$\frac{15}{10} = \frac{3}{2}$

Answer $1\frac{1}{2}$

8

Kezia writes $3 \times \frac{2}{7} = \frac{6}{21}$.

Explain why her answer must be wrong. Then work out the right answer.

$\frac{6}{21} = \frac{2}{7}$, the fraction she started with

$\frac{3}{1} \times \frac{2}{7} = \frac{6}{7}$

Answer $\frac{6}{7}$

Multiplying fractions *further practice*

ANSWERS

9

Work out $\frac{7}{8} \times \frac{2}{3}$. Give your answer in its simplest form.

$\frac{14}{24} = \frac{7}{12}$

Answer $\frac{7}{12}$

10

Work out $\frac{3}{5}$ of $\frac{2}{3}$. Give your answer in its simplest form.

$\frac{3}{5} \times \frac{2}{3} = \frac{6}{15} = \frac{2}{5}$

Answer $\frac{2}{5}$

11

Work out $5 \times \frac{3}{10}$. Give your answer as a mixed number.

$\frac{5}{1} \times \frac{3}{10} = \frac{15}{10}$

Answer $1\frac{1}{2}$

12

Find the missing number.

$\frac{\boxed{2}}{3} \times \frac{5}{8} = \frac{10}{24}$

? × 5 = 10, so ? = 2

Answer 2

13

Work out $1\frac{1}{3} \times \frac{3}{8}$. Give your answer in its simplest form.

$\frac{4}{3} \times \frac{3}{8} = \frac{12}{24}$

Answer $\frac{1}{2}$

14

A tile is $\frac{3}{4}$ m long and $\frac{2}{5}$ m wide.
Work out its area. Give your answer in its simplest form.

$\frac{3}{4} \times \frac{2}{5} = \frac{6}{20}$

Answer $\frac{3}{10}$ m^2

15

Work out $2\frac{1}{4} \times 1\frac{1}{3}$

$\frac{9}{4} \times \frac{4}{3} = \frac{36}{12}$

Answer 3

16

Leah says multiplying always makes a number bigger. Use $\frac{1}{2} \times \frac{6}{7}$ to show that she is wrong.

$\frac{1}{2} \times \frac{6}{7} = \frac{6}{14} = \frac{3}{7}$

$\frac{3}{7}$ is less than $\frac{6}{7}$

Answer $\frac{3}{7}$, smaller